

### Actuarial Science Requirements

#### Part A: Required Prerequisites

Math 1151	Calculus I ●	5
Math 1152	Calculus II ●	5
AcctMIS 2000	Foundations of Accounting	3
Econ 2001	Principles of Microeconomics ●	3
Econ 2002	Principles of Macroeconomics ●	3

Choose one of the following three:

CSE 1222	Introduction to Computer Programming in C++ for Engineers and Scientists	3
CSE 1223	Introduction to Computer Programming in Java	3
CSE 2111	Modeling and Problem Solving with Spreadsheets and Databases	3

Choose one of the following three:

Comm 2367**	Persuasive Communication	3
Comm 2110**	Principles of Effective Public Speaking	3
Comm 2131**	Business and Professional Speaking	3

#### Part B: Major Program (Minimum grade of C- and GPA of 2.0)

Math 2153 or <b>Math 2182H</b>	Calculus III	4
Math 2568 or <b>Math 2568H</b>	Linear Algebra ●	3

Choose one of the following two:

Math 4530	Probability <sup>1</sup>	3
Stat 4201	Introduction to Mathematical Statistics I <sup>1</sup>	4

Complete the following six:

Stat 4202	Introduction to Mathematical Statistics II	4
Math 3588	Practicum in Actuarial Science	3
Math 3618	Theory of Interest <sup>2</sup>	3
<b>Math 5632</b>	Financial Economics for Actuaries <sup>4</sup> ●	3
BusFin 3120	Foundations of Finance	3
English 3304**	Business and Professional Writing	3

Choose one of the following sequences:

<b>Math 5630</b>	Life Contingencies I <sup>3</sup>	3
<b>Math 5631</b>	Life Contingencies II <sup>3</sup>	3
<b>Math 5633</b>	Loss Models I <sup>5</sup>	3
<b>Math 5634</b>	Loss Models II <sup>5</sup>	3

Actuarial Exams: <sup>1</sup> SOA P/CAS 1 <sup>2</sup> SOA FM/CAS 2 <sup>3</sup> SOA LTAM/CAS MAS1 <sup>4</sup> SOA IFM/CAS 3F <sup>5</sup> SOA STAM/CAS MAS1 and MAS 2	<b>Total Hours</b>	<b>35-36</b>
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Students should complete the corresponding actuarial exam the semester after completing the correlate course.

**Honors Degree:** Students completing an honors degree must fulfill the Actuarial Science requirements listed above, to include at least 5 honors eligible courses (effective for students first entering OSU AU20) selected in consultation with a faculty advisor.

**Honors Eligible Example 1:** Complete Math 5630, Math 5631, Math 5632, Math 5633 and Math 5634.

**Honors Eligible Example 2:** Complete Math 2182H, Math 2568H, Math 5632, and at least one series: Math 5630-5631 or Math 5633-5634.

\*\* New requirements for students starting Autumn 2020 and later.

Online options may be available for courses marked ●. Please refer to the ASC General Education course list for GE online courses.

**Actuarial Science Sample Schedule**

	Autumn		Spring	
Year 1	Math 1151 ●	5	Math 1152 ●	5
	CSE 1222, 1223 or 2111	3	AcctMIS 2000	3
	Econ 2001 or 2002 ●	3	Econ 2001 or 2002 ●	3
	ARTSSCI 1100.01	1	English 1110 ●	3
	GE	3	GE	3
		15		17
Year 2	Math 2153	4	Math 2568 ●	3
	Math 3618 <sup>2</sup>	3	Stat 4201 <sup>1</sup> or Math 4530 <sup>1</sup>	3-4
			Comm 2367, 2110 or 2131 **	3
		7		9-10
Year 3	Stat 4202	4	Math 3588	3
	BusFin 3120	3	Math 5632 <sup>4</sup> ●	3
			English 3304**	3
		7		9
Year 4	Math 5630 <sup>3</sup> or 5633 <sup>5</sup>	3	Math 5631 <sup>3</sup> or 5634 <sup>5</sup>	3
		3		3

Actuarial Exams: <sup>1</sup>SOA P/CAS 1   <sup>2</sup> SOA FM/CAS 2   <sup>3</sup> SOA LTAM/CAS MAS1   <sup>4</sup> SOA IFM/CAS 3F   <sup>5</sup> SOA STAM/CAS MAS1 and MAS 2

Students should complete the corresponding actuarial exam the semester after completing the correlate course.

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